

STRITCH SCHOOL OF MEDICINE
of
LOYOLA UNIVERSITY
706 South Wolcott Avenue
Chicago 12, Illinois

Tuesday, Aug. 16, 1955

Dear doctor Lederberg:

I have finally picked out 6 cultures to send to you. These are enclosed together with flagella stained slides of each. The slides are not perfect but I think you will get a good idea of the flagellation if you examine them carefully. The slides were made from 24 hrs. broth cultures at 20°C. The cultures may not be what you want but they are the best selection I can make at present.

polar monotrichous
mainly unipolar

{ H-1 Pseudo. aeruginosa - typical strain. monotrichous, unipolar.
dext., wannerose, xylose, arabinose +, gel. +, nitrate - 90% Greenish pigment.
H-300 Pseudomonas sp. - water type. Orig. strain showed mainly
polar multitrichous flag. ~~etc~~ but now mainly ~~etc~~
dext. +, gel. +, cit. + Other reactions negative. Sl. yellowish pig.

polar lophotrichous
frequently bipolar

{ H-32 } Typical lophotrichous B⁻ org. Do not attack CHO. Are generally
H-37 } called Alcaligenes but should be classified in a separate genus
which we call Lophobacter. One of my students wrote his
Ph.D. thesis on this group of bact. Only + react is $\text{NO}_3 \rightarrow \text{NO}_2$
These show many org. with bipolar flag. ~~etc~~ ~~etc~~ also ~~etc~~

polar multitrichous
some bipolar

{ H-705 - Polar multitrichous. ~~etc~~. Isolated from stool.
matt. +, gel. +, $\text{NO}_3 \rightarrow \text{NO}_2$. No pig. Other tests neg.
H-430 - Polar multitrichous ~~etc~~. From Mayo Clinic labeled Alcaligenes.
matt. +, wannerose +, gel. +. Other react. neg.

Leifer